

1. Session: Solid Earth Dynamics

The theme focuses on Earth's active interior and surface processes, encompassing crustal evolution, metamorphic transformations, magmatism, and metallogenic ore deposits.

1/a Sub-Session: *Crust-Mantle Interplay: tracing imprints on the surface*

1/b Sub-Session: *Fluid/melt-rock interaction: Insights into crust-mantle geodynamics*

1/c Sub-Session: *Interplay between magmatism and Earth's energy dynamics*

2. Session: Sedimentary Archives and Prehistoric life

The theme focuses on multidisciplinary aspects of sedimentology and paleontology, investigating earth's paleoenvironmental changes and evolutionary history.

2/a Sub-Session: *Basin evolution in time and space*

2/b Sub-Session: *Evolutionary history of life in response to climatic shifts*

2/c Sub-Session: *Old bones, new tools - An Alpine-Himalayan perspective*

2/d Sub-Session: *An assessment of fuel (coal) energy: From Peat to a Critical Minerals Resource*

2/e Sub-Session: *Tiny Fossils, Big Insights: Decoding Earth's History*

2/f Sub-Session: *Life in the Phanerozoic: Diversity, Ecology, and Evolution of Marine Fauna*

2/g Sub-Session: *Ancient Marine Communities: Sedimentary Records, Taphonomy, Palaeoecology and Evolution*

3. Session: Environmental Geology, Geomorphology and Hazard Resilience

The theme focuses on landforms and topographic architecture, encompassing natural resources, climate variability over time, disruptive natural events & its mitigation and anthropogenic impact.

3/a Sub-Session: *Decoding surface processes and natural resources using a multiproxy approach*

3/b Sub-Session: *Groundwater Systems: Occurrence, Dynamics, Quality, Recharge and Emerging Challenges*

3/c Sub-Session: *Quaternary paleoenvironments from Indian Lakes and Wetland Systems*

3/d Sub-Session: *Reconstructions and Mechanisms of Cenozoic Climate and Environmental Change*

3/e Sub-Session: *Slope Failure and Hazard in response to Climate change*

3/f Sub-Session: *Earth-Surface Processes and Biogeochemical Cycles: application of advanced Isotope Geochemistry*

4. Session: Seismotectonics, Sub-surface Imaging and Crustal Deformation

The theme focuses on seismological and geophysical investigations toward the understanding of Earth system processes.

4/a Sub-Session: *Assessment of the crustal deformation and seismotectonics: a geophysical approach*

4/b Sub-Session: *Integrating Artificial Intelligence with Modern Geophysical Methods*

4/c Sub-Session: *Envisaging shallow subsurface using Geophysical techniques*

5. Session: Advanced Analytical Techniques and Tools in Geoscience

Principles and practices of analytical techniques in geosciences, using advanced methods and integration of modern approaches in reshaping our interpretation ability

5/a Sub-Session: *Importance of high-resolution micro-analysis, mass spectrometry and geophysical techniques and tools*

5/b Sub-Session: *Metal Stable Isotope Tracing of Critical Metal Mineralisation: From Source to Deposit*

5/c Sub-Session: *Computational and Data-Driven Approaches in Geoscience*

5/d Sub-Session: *Isotope-Based Approaches in Geohydrological Studies*

5/e Sub-Session: *Data-driven Discovery in geosciences using AI/ML techniques*

Hands-on Training Program

2 hands-on training programs: 1st on Mass Spectrometer and its Importance (By Dr. Santosh K. Rai, Scientist WIHG), 2nd on Seismic Data Processing (By Drs. Naresh Kumar & Devajit Hazarika, Scientist WIHG), will take place at the Meet on 25th Nov & 26th Nov 2026, capped at a maximum of 35 registered participants.